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 SECURITY INFORMATION  
 CENTRAL INTELLIGENCE AGENCY  
 INFORMATION FROM  
 FOREIGN DOCUMENTS OR RADIO BROADCASTS

REPORT

CD NO.

COUNTRY USSR

DATE OF INFORMATION 1951 - 1952

SUBJECT Economic - Technological, mining machinery

DATE DIST. 7 Apr 1952

HOW PUBLISHED Daily newspapers

WHERE PUBLISHED USSR

NO. OF PAGES 4

DATE PUBLISHED 17 Feb 1951 - 18 Jan 1952

LANGUAGE Russian

SUPPLEMENT TO REPORT NO.

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SOURCE Newspapers as indicated.

COMBINES, CUTTERS, LOADERS  
AMONG RECENT COAL MINING MACHINES

FIRST MODELS WORK WELL IN THIN SEAMS -- Moscow, Vechernyaya Moskva, 16 Mar 51

The Experimental Plant of Giprouglemash (State Planning and Designing Experimental Institute for Coal Machinery) has put out the first models of the new UKT combine, designed to extract coal from seams 0.4-0.7 meter thick.

These machines have worked well in mines of the Rostovugol', Stalimugol', and Voroshilovgradugol' combines, where extraction of coal from thin seams increased on an average of 30 percent. Dozens of workers were freed from cutting-loading operations, labor productivity rose  $1\frac{1}{2}$  times, and working conditions were improved considerably.

The Khar'kov Svet Shakhtera Plant is about to begin series production of the new combines.

Frunze, Sovetskaya Kirgiziya, 31 Mar 51

The Khar'kov Svet Shakhtera Plant has completed the assembly of the new UKT-1 coal combine, designed by Stalin-Prize winners A. D. Gridin, Ye. I. Kudryashev, A. A. Pichugin, and I. Ya. Burtsev. It completely mechanizes the processes of extracting and loading coal from thin seams. A special conveyor, modernized at the plant, will work together with the combine. Application of this aggregate should boost miners' productivity  $1\frac{1}{2}$  times and free many workers. In 1951, the plant will send dozens of the new combines to mines throughout the country.

NEW MACHINES INCLUDE MODIFICATIONS OF OLD MODELS -- Alma-Ata, Kazakhstanskaya Pravda, 29 May 51

The Gorlovka Plant imeni Kirov has begun series production of the new Donbass-1 Combine. A modification of the older Donbass Combine, the new machine features an effective dust-allaying unit of new design, as well as other improvements.

- 1 -

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Tbilisi, Zarya Vostoka, 28 Sep 51

The Donets Scientific-Research Coal Institute, together with the Gorlovka Plant imeni Kirov, has developed a new combine, the UKMG-1, intended for use in seams 0.35-0.6 meter thick. The cutter chains are fitted with blades in addition to bits, and run in reverse. The cutter chains of the bars cut the thin seams to their full height, and move the coal out and load it onto a face scraper conveyor. [The machine may make one cutting pass, and then, with the chains in reverse, a loading pass.]

An experimental model of the combine, working seams 0.4-0.45 meter thick in a mine of the Budennovugol' Trust, is performing a complete cycle every shift.

Kazakhstanskaya Pravda, 28 Jun 51

The Gorlovka Plant imeni Kirov is now producing a large number of GTK-35 improved cutting machines.

MINERS PRAISE PERFORMANCE OF CUTTER -- Kiev, Pravda Ukrainy, 25 Aug 51

Miners in the Donbass are paying high compliments to the KMP-1 coal cutting machine. Some of the machines are cutting 16,000-18,000 tons of coal per month.

NEW THIN-SEAM COMBINE WORKING IN DONBASS -- Alma-Ata, Kazakhstanskaya Pravda, 8 Jan 52

Soviet designers, working with engineers, technologists, and Stakhanovites of the coal mines, have turned out a new combine, the KKP-1, built for work in thin, sharp-dipping seams. One of these combines working in the Donbass coal fields is extracting 350 tons of coking coal per day.

REDUCTION IN SIZE RENDERS NEW COMBINE MORE EFFICIENT -- Riga, Sovetskaya Latvija, 12 Jan 52

The Rutchenkovo Plant imeni Khrushchev [near Stalino] has put out a new model of the Shakhter combine. Designed to work thin seams, it is equipped with a looped bar, on which the loading unit is mounted. Unlike previous models, the new one has no breaker bar. It is a smaller machine, and can work the seams more efficiently.

EQUIP COMBINE WITH AUTOMATIC SPEED REGULATOR -- Alma-Ata, Kazakhstanskaya Pravda, 18 Jan 52

A group of scientists of the Mining Institute imeni M. M. Fedorov of the Academy of Sciences Ukrainian SSR have developed an automatic regulator for the Donbass Combine which reduces the speed of the machine when it encounters hard coal, and increases its rate of advance when the seam becomes softer. In tests conducted in a mine of the Kuybyshevugol' Trust, use of the automatic regulator increased productivity of the combine to 0.35-0.40 running meter of coal cut per minute, as compared to a rate of 0.27 running meter per minute in the same seam when speed was regulated by hand.

- 2 -

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PRODUCE CONVEYERS, CARS -- Leningradsкая Pravda, 17 Feb 51

The Kuttaisi Machine-Building Plant has begun production of self-unloading conveyers for use in mines and at construction sites. It has also begun to put out self-propelled cars with turnover bodies, of 700 kilograms capacity.

LOADER WORKS WELL IN TESTS -- Moscow, Izvestiya, 11 Apr 51

The Sverdlovsk Transport Machinery Plant has turned out the first models of a new coal-loading machine. They have performed well in plant tests.

BOOST MACHINE SHOP PRODUCTIVITY -- Alma-Ata, Kazakhstanskaya Pravda, 2 Mar 51

The Karaganda Machine-Building Plant imeni Parkhomenko recently turned out ten Yegorov coal loaders, one in excess of plan.

Special efforts are being made to increase the productivity of the plant's machine tools. Formerly, each shift in the machine shop worked only on the parts which were set up on the machine tools. This system led to idle periods for the machine tools, and upset the work schedule of the assembly shop. The situation was remedied by machining the various parts for the assembly shop as they were needed during all three shifts.

Recently, 60 machinists went over to high-speed machining methods, with one of the leading workers attaining a speed of 200 meters per minute on a DIP lathe, fulfilling 2.5-3 norms per shift.

As a result of the change in the system of the machine shop, and the switch to high-speed machining methods, the productivity of all equipment in the shop has risen over 15 percent.

One brigade in the assembly shop is fulfilling two norms per shift in the assembly of mining machines and equipment for coal-cleaning plants.

WORKS AHEAD OF SCHEDULE -- Kiev, Pravda Ukrainy, 28 Apr 51

The Krivoy-Rog Kommunist Plant, which produces heavy hammer drills and other mining equipment, is already running on its May schedule.

BUILD CAISSON APPARATUS -- Alma-Ata, Kazakhstanskaya Pravda, 28 Jun 51

The Stalino Plant imeni 15-Letiya Komsomol has completed its first model of a special caisson apparatus for use in cutting vertical shafts in quicksand.

ASSEMBLE CRANE FOR OPEN-PIT WORK -- Alma-Ata, Kazakhstanskaya Pravda, 28 Jun 51

The Yasinovataya [Construction Machinery] Plant is assembling a crane designed for operation in open-pit mining. It is rigged with two 66-meter booms, and can excavate 50 tons of ore in one pass.

- 3 -

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EXCEED QUOTA ON HOISTING MACHINERY -- Moscow, Moskovskaya Pravda, 18 Jul 51

The Barvenkovo Krasnyy Luch Plant has exceeded its plan for production of coal-mine hoisting machinery. The plant has established production of the SKR-11 conveyer, and has completed a mobile sorting machine of 30-tons-per-hour capacity, which will be sent to the Donbass coal fields.

Other products of the plant include ventilation units for the coal mines.

LENINGRAD PLANTS AID COAL INDUSTRY -- Alma-Ata, Kazakhstanskaya Pravda, 26 Jul 51

Over 150 Leningrad enterprises are fulfilling orders from the coal industry. Dozens of carloads of material, tools, and instruments are going to the Donbass, Kuzbass, and Karaganda coal fields.

The Elektrosila Plant imeni Kirov has completed its yearly quota for production of automatic devices for mercury-arc rectifiers. The Steel-Rolling and Cable-Drawing Plant imen Molotov has sent dozens of tons of above-plan mine-hoist cable.

TEST MAGNETIC SEPARATOR -- Kiev, Pravda Ukrainy, 6 Oct 51

The Leningrad Machine-Building Plant imeni Kotlyakov has completed tests of a disk-type magnetic separator for ore concentration. The new machine weighs nearly half as much as former models.

PRODUCE NEW LOCOMOTIVE -- Alma-Ata, Kazakhstanskaya Pravda, 12 Jan 52

The electric locomotive shop of the Laptevo Machine Building Plant has launched series production of new electric locomotive for coal mines. The new machine should be highly efficient and should stand up well under wear.

BUILD COAL CRUSHER FOR POWER STATIONS -- Alma-Ata, Kazakhstanskaya Pravda, 12 Jan 52

The Novo-Kramatorsk Plant imeni Stalin has put out a new coal crusher which has a productivity of 16 tons per hour. Electric power stations throughout the nation will receive eight of them in January.

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- 4 -

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